

PATENT**INSTITUT FRANÇAIS DU PÉTROLE****POROUS INORGANIC MEMBRANE CONTAINING CARBON; A PROCESS**5 **FOR ITS PREPARATION; AND USE THEREOF****Christophe CHAU and Denis UZIO****A B S T R A C T**

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A porous inorganic membrane comprises at least one inorganic phase having separating properties. Said membrane has a carbon content representing 0.05% to 25% by weight with respect to the mass of said inorganic phase and is selective to non-condensable gases. It is obtained by means of a selectivation treatment of a porous 15 carbon-free inorganic membrane using a hydrocarbon feed. It is used in processes for separating non-condensable molecules such as hydrogen, and in association with a catalyst in a catalytic membrane reactor.